

Abstract

Hypericin has been shown to specifically inhibited T-type calcium channel activity. *Hypericum* extract containing hypericin also inhibited T-type calcium channel activity. Moreover, other chemicals in *Hypericum* extract showed a synergistic effect to hypericin. In view of this, hypericin or hypericin-containing *Hypericum* extract can be used as T-channel blockers. *Hypericum* extract, extract of other species of the *Hypericum* genus, extract of other plants containing hypericin, hypericin, hypericin derivatives, hypericin analogs, such as pseudohypericin, and other *hypericum* extract constituents can be used as therapeutics targeted at T-type calcium channels for treatment of diseases associated with T-channel abnormality. Methods for administering hypericin and *hypericum* extract are disclosed.